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(54) Title: FLUIDISING COMPOSITION

(57) Abstract: A fluidising admixture for use with sprayable cementitious compositions, the admixture consists of 2-phosphonobutane-1,2,4-tricarboxylic acid and at least one selected polymer derived from ethylenically-unsaturated mono-or dicarboxylic acids. Citric acid may optionally be present. The admixture has good fluidising properties and outstanding shelf-life.



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A. CLASSII	FICATION OF SUBJECT MATTER							
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EPO-In	ternal, WPI Data, PAJ							
	ENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.					
Y	EP 0 508 158 A (SIKA AG)		1-5					
	14 October 1992 (1992-10-14)	·	•					
	the whole document	·						
Υ	GB 2 347 415 A (MBT HOLDING AG)	·	1-4					
	6 September 2000 (2000-09-06)		1-4					
	page 1, line 30 -page 8, line 5							
Υ	WO 00 77058 A (LEITNER HUBERT ;HU		1-5					
	CHRISTIAN (DE); GRASSL HARALD (DE	(); KERN						
	A) 21 December 2000 (2000-12-21)							
	cited in the application							
	page 4, line 13 -page 22, line 18							
Α	CH 678 526 A (SANDOZ AG)							
,,	30 September 1991 (1991-09-30)	İ	•					
	column 1, line 61 -column 3, line	63						
		l						
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Information on patent family members

Internal Application No PCT/EP 02/10045

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0508158	A	14-10-1992	СН	681720 A5	14-05-1993
			ΑT	136529 T	15-04-1996
			DE	59205931 D1	15-05-1996
			DK	508158 T3	19-08-1996
			EP	0508158 A2	14-10-1992
			ES	2086568 T3	01-07-1996
			GR	3019647 T3	31-07-1996
GB 2347415		06-09-2000	AT	409861 B	27-12-2002
			AT :	3282000 A	15-04-2002
			AU	2061600 A	07-09-2000
			DE	10009834 A1	28-09-2000
			GB	2359550 A	29-08-2001
			JP	2000247703 A	12-09-2000
			ZA	200001034 A	16-10-2000
WO 0077058	Α	21-12-2000	DE	19926611 A1	14-12-2000
			ΑU	4394900 A	02-01-2001
			WO	0077058 A1	21-12-2000
			EP	1189955 A1	27-03-2002
			JP	2000351820 A	19-12-2000
CH 678526	Α	30-09-1991	AT	396467 B	27-09-1993
			ΑT	244790 A	15-01-1993
			ΑU	649428 B2	26-05-1994
			ΑU	6997891 A	01-08-1991
			BE	1003885 A5	07-07-1992
			CA	2035008 A1	28-07-1991
			CH	678526 A5	30-09-1991
			DE	4038147 A1	01-08-1991
			ES	2028580 A6	01-07-1992
			FR	2657601 A1	02-08-1991
			GB	2240334 A ,B	31-07-1991
			ΙT	1244643 B	08-08-1994
			JP	2812562 B2	22-10-1998
			JP	4214058 A	05-08-1992
			NO	910311 A	29-07-1991
			SE	507470 C2	08-06-1998
			SE	9100226 A	28-07-1991
			US	5413819 A	09-05-1995